

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	10/574364	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L2	45	"5220546" "4471477" "5761164" "5341353"	USPAT	OR	ON	2009/01/30 14:51
L3	30	((ANTONIUS or LEONARDUS or JOHANNES) near2 (DEKKER)).INV.	EPO; JPO; DERWENT	OR	ON	2009/01/30 14:51
L4	17	((ANTONIUS or LEONARDUS or JOHANNES) near2 (DEKKER)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/30 14:51
L5	9348	control\$4 near5 ((lens or (object\$4 adj lens)) near2 position\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L6	84924	((lens or (object\$4 adj lens)) near2 position\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L7	22125	VCM or (voice adj coil adj motor)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L8	44	sledge adj motor	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L9	31	L8 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L10	10	L8 and (L5 or L6) and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L11	7231	control\$4 near5 (VCM or (voice adj coil adj motor))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L12	276	L11 and L6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L13	85	L11 same L6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L14	55	L13 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

L15	2	"6163513"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L16	3	("5210732"   "5247503"   "5768228").PN. OR ("6163513").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L17	452	track adj servo adj control \$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L18	132	L17 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L19	1154070	(AC or (alternat\$4 adj (current or signal))) or modulat\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L20	6	L19 same L17	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L21	3673	track adj servo	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L22	127	L19 same L21	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L23	22141	(VCM or (((voice adj coil) or (lens adj position)) adj motor))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L24	326	L19 with L23	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L25	265	L19 near10 L23	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L26	14	L25 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L27	25	L24 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L28	25	("4371903"   "5455496"   "5473238"   "5495372"   "5504402"   "5729399"   "5737144"   "5889629"   "5965992").PN. OR ("6094020").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L29	4210	"track servo"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2009/01/30 14:51

L30	214	L29 same L23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2009/01/30 14:51
L31	46	L30 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L32	2	L29 same L23 same L19	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2009/01/30 14:51
L33	1	"478314"	EPO	OR	ON	2009/01/30 14:51
L34	138	dither\$4 near2 actuator	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L35	3	L34 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L36	17	(dither\$4 near2 actuator) and (track\$4 near2 control \$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L37	4	(dither\$4 near2 actuator) same (track\$4 near2 control \$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L38	478	((track\$4 adj servo) or (track\$4 near2 control\$4) or (track\$4 near2 servo near2 control\$4) or (lens near2 position\$4 near2 control\$4)) near10 bandwidth	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L39	123	((track\$4 adj servo) or ("track servo") or (track\$4 near2 control\$4) or (track \$4 near2 servo near2 control\$4) or (lens near2 position\$4 near2 control \$4)) near10 ((high\$4 or increas\$4 or improv\$4) near3 bandwidth)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L40	74	L39 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L41	4334	((dither\$4 or modulat\$4) near5 (actuator or L7))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L42	2	L39 and L41	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

L43	16	(fine adj tracking) near20 (modulat\$4 or dither\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L44	6040	(modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near2 (lens or (objective adj lens))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L45	117	L44 and (L17 or L21 or L29 or L23 or L38)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L46	39	("2694804"   "2995705"   "4110610"   "4339198"   "4387299"   "4544915"   "4639595"   "4644156"   "4644157"   "4659924"   "4661696"   "4673810"   "4823000").PN. OR ("5107107").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L47	12	("4748609"   "4872152"   "5083150"   "5084848"   "5138596"   "5247502"   "5461599"   "5487055"). PN. OR ("5699334"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L48	1	("2004/0062157").URPN.	USPAT	OR	ON	2009/01/30 14:51
L49	54	("20020114230"   "20020131339"   "20020191517"   "20030161224"   "20040004912"   "20040027953"   "20040062157"   "20050056085"   "20050057639"   "4027217"   "4967286"   "5182741"   "5398231"   "5498509"   "5608717"   "5608718"   "5627895"   "5675570"   "5688173"   "5729533"   "5745457"   "5748607"   "5751671"   "5764430"   "5766495"   "5781221"   "5846131"   "5875156"   "5915858"   "5949752"   "5958651"   "5967676"   "5997976"   "6019151"   "6026066"   "6034930"   "6074031"   "6102800"   "6104677"   "6124011"   "6160789"   "6202550"   "6264295"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51

		"6266305"   "6270176"   "6295261"   "6317399"   "6384929"   "6386667"   "6403191"   "6440248"   "6452883"   "6469969"   "7084894").PN. OR ("7324419").URPN.				
L50	11311	(disk or disc) near2 rotation \$4 near2 (frequenc\$3 or speed)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L51	1204	(disk or disc) near2 rotation \$4 near2 (frequenc\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L52	503	L51 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L53	48	((disk or disc) near2 rotation\$4 near2 (frequenc \$3)) near2 (hertz or hz)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L54	24	L53 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L55	75898	((track\$4 adj servo) or (track\$4 near2 control\$4) or (track\$4 near2 servo near2 control\$4) or (lens near2 position\$4 near2 control\$4))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L56	32	L53 and L55	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L57	17	L53 and L55 and "369". clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L58	6040	(modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near2 (lens or (objective adj lens))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L59	1	L53 and L58	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L60	22	L51 and L58	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

L61	11	("20040246846"   "5903531"   "5909419"   "6424605"   "6449232"   "6556302"   "6822935"   "6822936"   "6868052"   "6970408"   "7046606"). PN. OR ("7385895"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/30 14:51
L62	3	((modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near2 (lens or (objective adj lens))) near5 (frequenc\$3 or speed) near2 (hertz or hz)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L63	9	((modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near2 (lens or (objective adj lens))) near10 (frequenc\$3 or speed) near5 (hertz or hz)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L64	1	"7164630"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L65	18	(US-20070121439-\$ or US-20070165499-\$ or US-20040062157-\$).did. or (US-5341353-\$ or US-5761164-\$ or US-4471477-\$ or US-5220546-\$ or US-6163513-\$ or US-5892742-\$ or US-6094020-\$ or US-7327103-\$ or US-4216357-\$ or US-5699334-\$ or US-5107107-\$ or US-7324419-\$ or US-4310912-\$ or US-7385895-\$ or US-7164630-\$).did.	US-PGPUB; USPAT	OR	ON	2009/01/30 14:51
L66	11	L65 and (init\$10)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L67	12	L65 and (switch\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

L68	18	(US-20070121439-\$ or US-20070165499-\$ or US-20040062157-\$).did. or (US-5341353-\$ or US-5761164-\$ or US-4471477-\$ or US-5220546-\$ or US-6163513-\$ or US-5892742-\$ or US-6094020-\$ or US-7327103-\$ or US-4216357-\$ or US-5699334-\$ or US-5107107-\$ or US-7324419-\$ or US-4310912-\$ or US-7385895-\$ or US-7164630-\$).did.	US-PGPUB; USPAT	OR	ON	2009/01/30 14:51
L69	1	L68 and (hundreds near2 hz)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L70	16024	(rotation\$4 near2 (frequenc \$3 or speed)) near2 (hertz or hz or rpm or (revolutions adj per adj minute))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L71	6040	(modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near2 (lens or (objective adj lens))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L72	22	L70 and L71	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L73	75898	((track\$4 adj servo) or (track\$4 near2 control\$4) or (track\$4 near2 servo near2 control\$4) or (lens near2 position\$4 near2 control\$4))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L74	614	L70 and L73	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L75	283	L74 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L76	51	L70 same L73	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L77	25	L76 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

L78	8	(modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near3 (lens or (objective adj lens)) near3 (hertz or hz or rpm or (revolutions adj per adj minute))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L79	36	(modulat\$4 or dither\$4 or shak\$4 or oscillat\$4) near5 (lens or (objective adj lens)) near5 (hertz or hz or rpm or (revolutions adj per adj minute))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L80	0	L70 and L79	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L81	67	(track\$4 near2 (servo or actuator)) near5 (hertz or hz or rpm or (revolutions adj per adj minute))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L82	15	L70 and L81	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L83	25	L81 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L84	8	(US-5341353-\$ or US-4471477-\$ or US-5220546-\$ or US-5699334-\$ or US-5107107-\$ or US-7164630-\$ or US-6067285-\$ or US-5768227-\$).did.	USPAT	OR	ON	2009/01/30 14:51
L85	9686568	("2000" adj (Hz or hertz)) or "2kHz" or ("2" adj "kHz") or ("2" adj "k" adj (Hz or hertz))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L86	28081	(track\$4 near2 (servo or actuator))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L87	1906	L86 near5 L85	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L88	23	(dither\$4 or modulat\$4 or oscillat\$4 or shak\$4 of vibrat\$4) near5 L86 near5 L85	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L89	14164	("2000" adj (Hz or hertz)) or "2kHz" or ("2" adj "kHz")	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51



L90	2	(dither\$4 or modulat\$4 or oscillat\$4 or shak\$4 of vibrat\$4) near20 L86 near20 L89	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L91	4	(dither\$4 or modulat\$4 or oscillat\$4 or shak\$4 of vibrat\$4) same L86 same L89	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L92	6	L86 near10 L89	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51
L93	14	L86 near20 L89	US-PGPUB; USPAT; EPO; JPO	OR	ON	2009/01/30 14:51

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